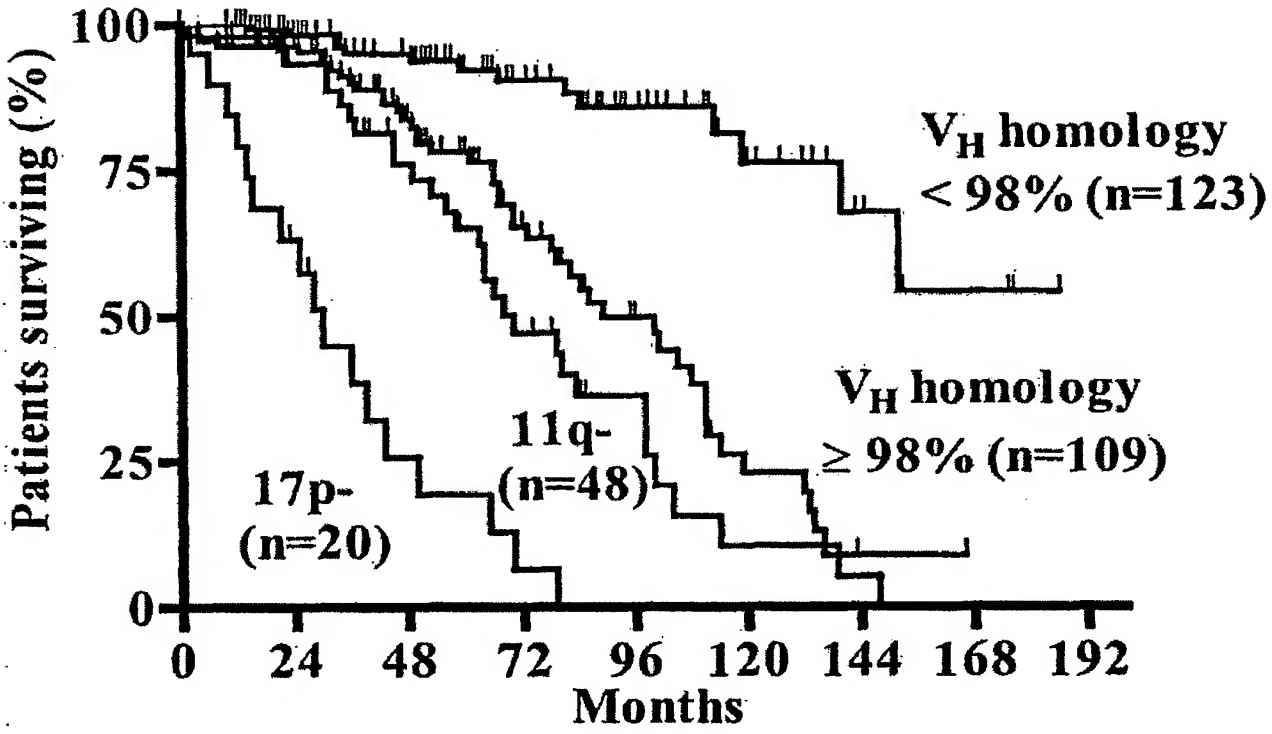

100
75
50
25
0
Patients surviving (%)
0
24
48
72
96
120
144
168
192
Months
V_H homology
< 98% (n=123)
V_H homology
≥ 98% (n=109)
11q-
(n=48)
17p-
(n=20)

Fig. 1

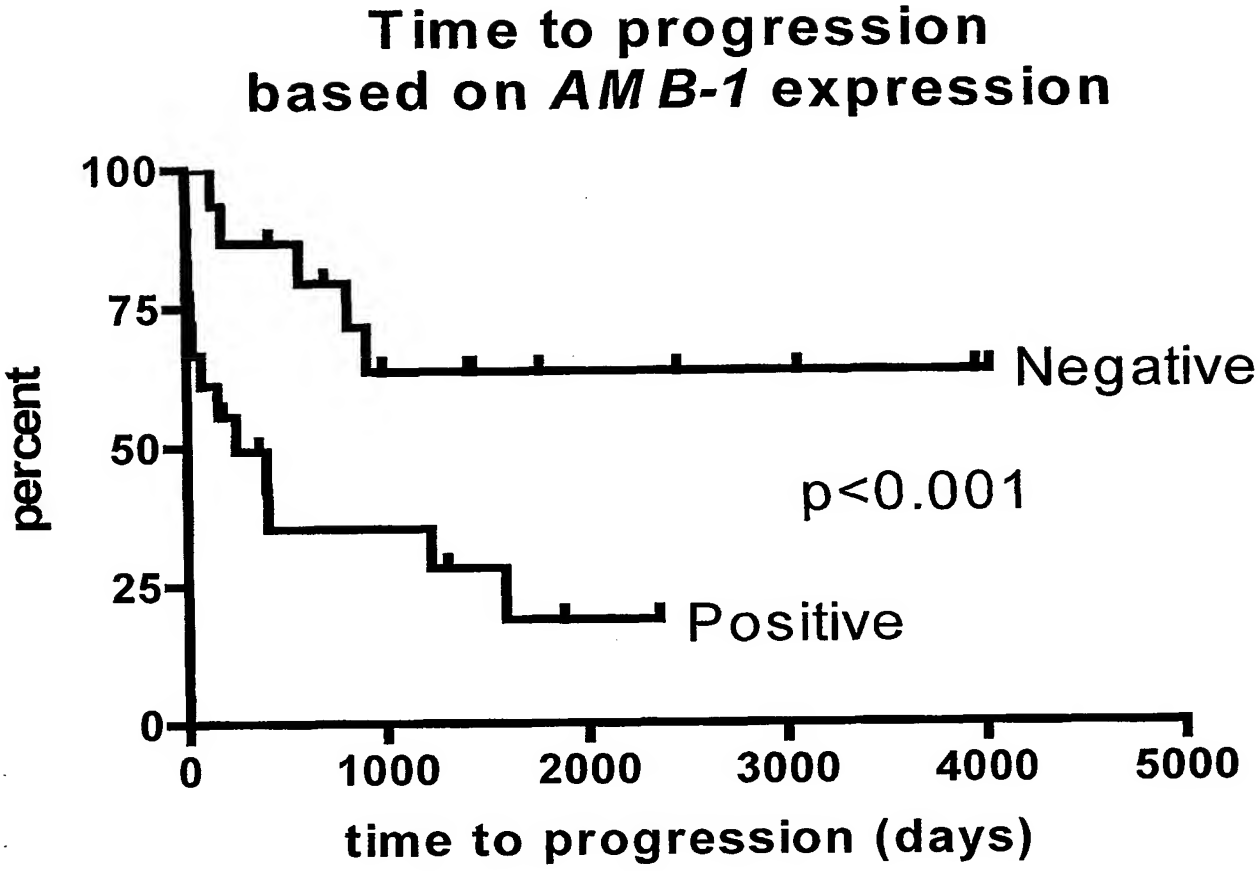

Time to progression
based on AMB-1 expression
100
75
50
25
0
percent
Negative
p<0.001
Positive
0
1000
2000
3000
4000
5000
time to progression (days)

Fig. 2a

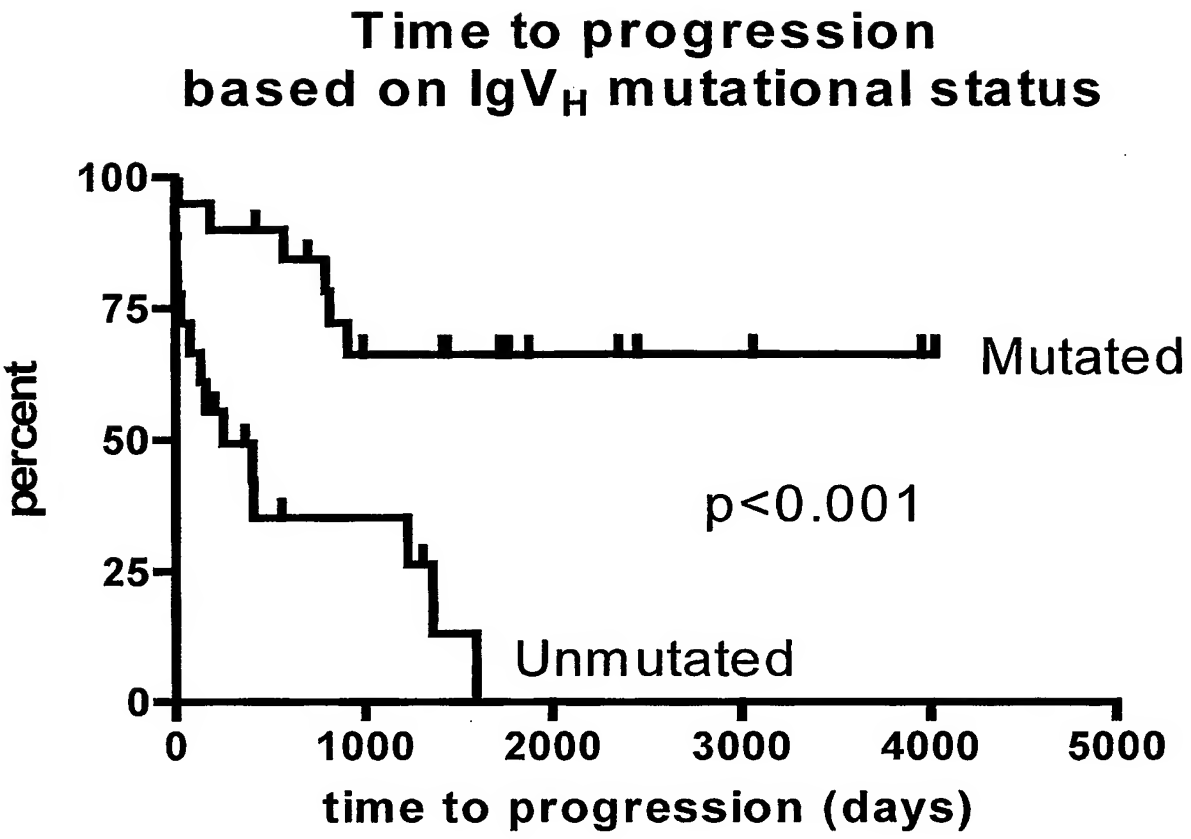

Time to progression
based on IgV$_H$ mutational status
100
75
50
25
0
percent
Mutated
p<0.001
Unmutated
0
1000
2000
3000
4000
5000
time to progression (days)

Fig. 2b

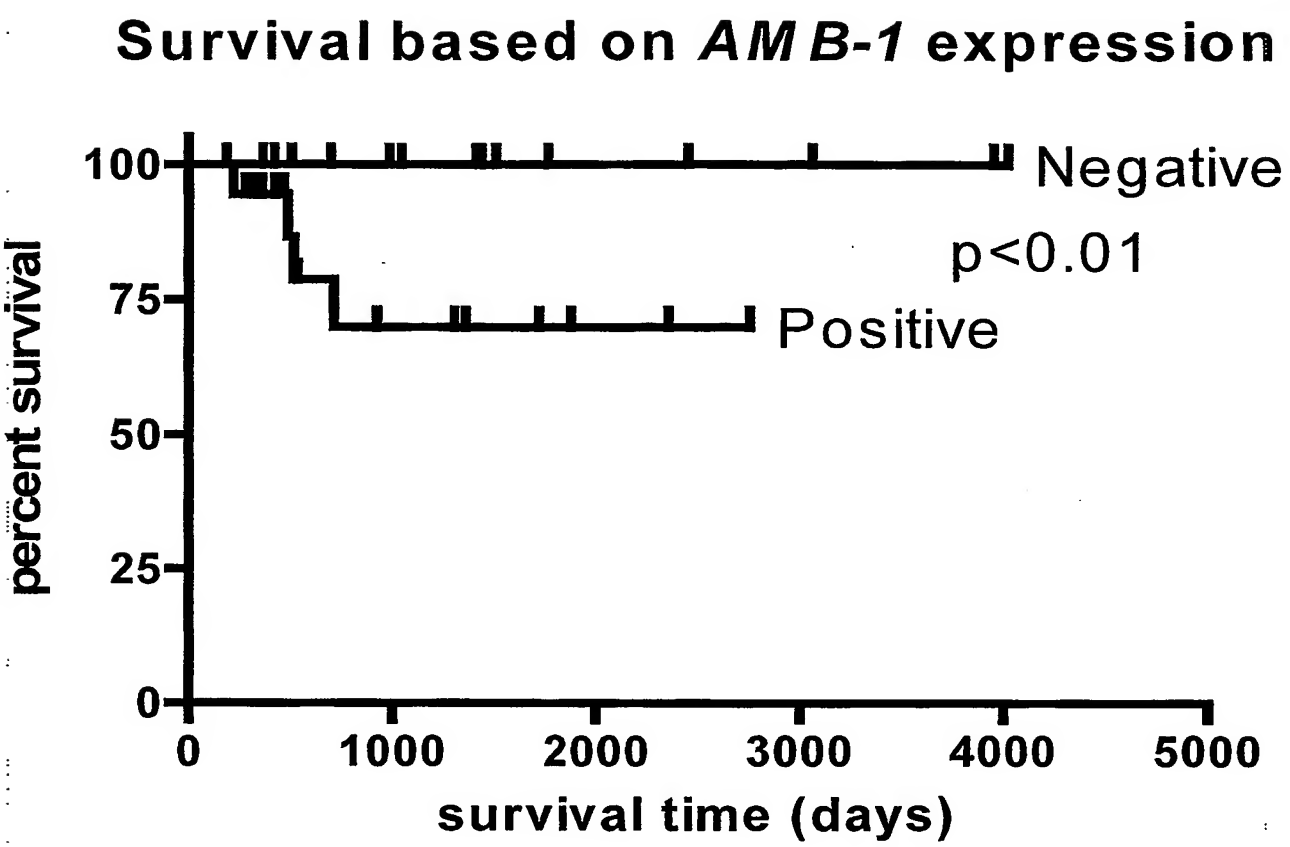

Survival based on *AMB-1* expression
percent survival
100
75
50
25
0
0
1000
2000
3000
4000
5000
survival time (days)
Negative
p<0.01
Positive

Fig. 2c

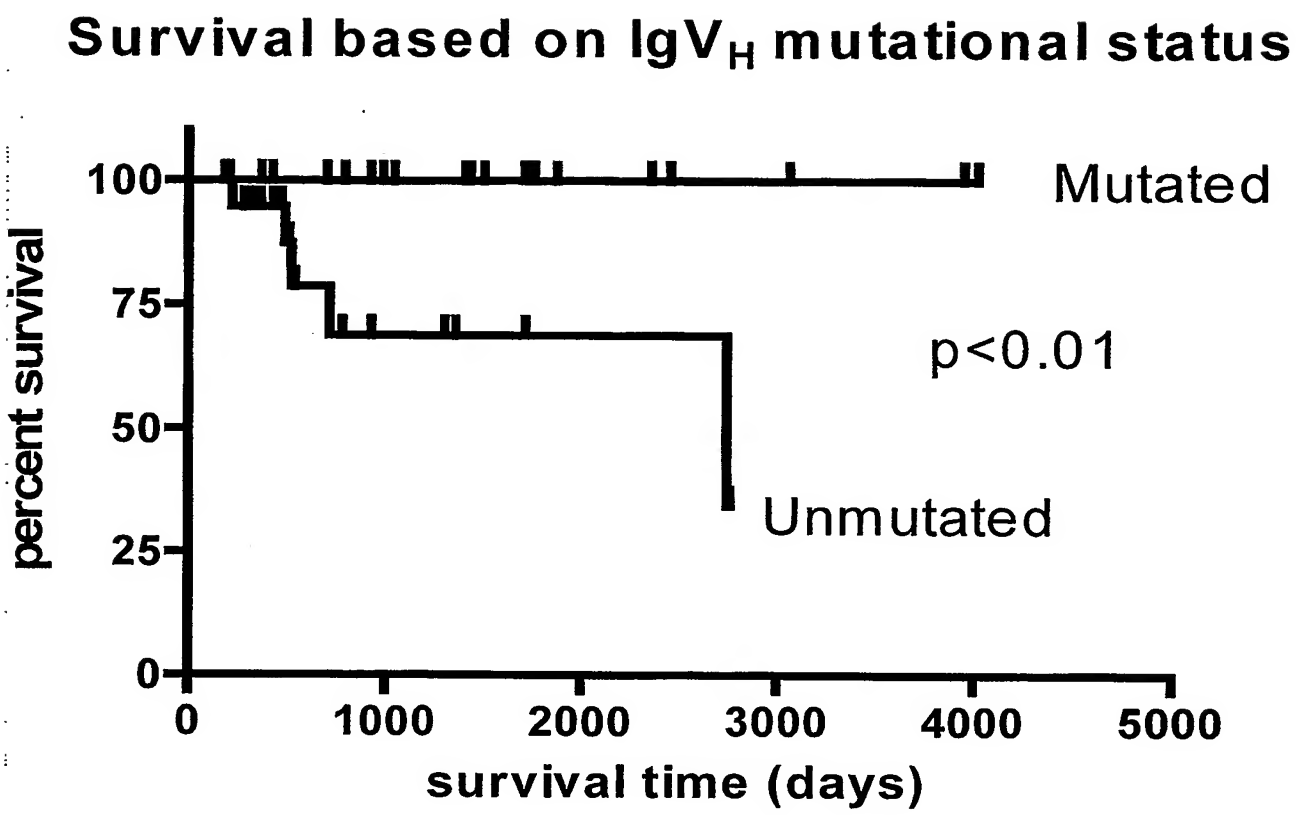

Survival based on IgV$_H$ mutational status
percent survival
100
75
50
25
0
0
1000
2000
3000
4000
5000
survival time (days)
Mutated
p<0.01
Unmutated

Fig. 2d

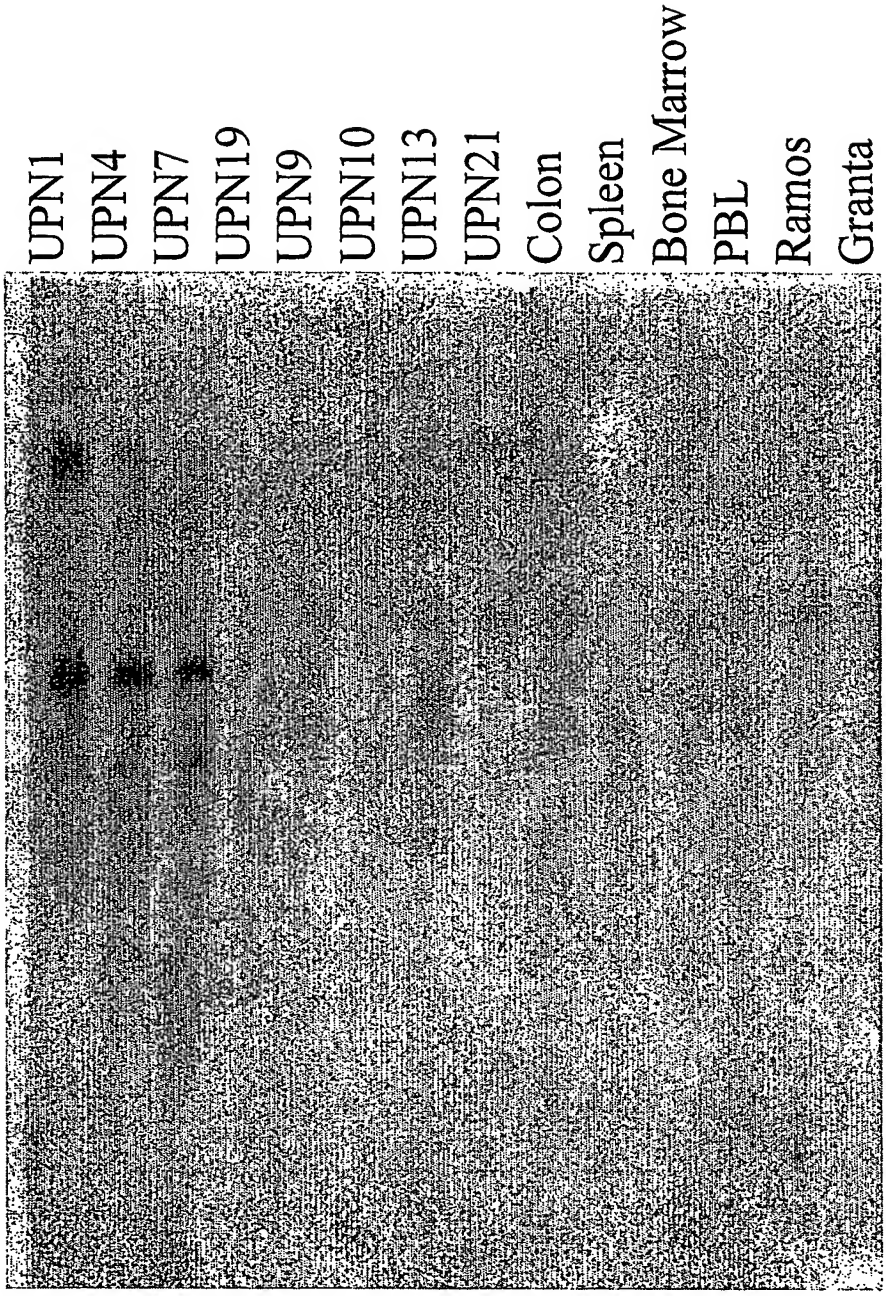

UPN1
UPN4
UPN7
UPN19
UPN9
UPN10
UPN13
UPN21
Colon
Spleen
Bone Marrow
PBL
Ramos
Granta

Fig. 3

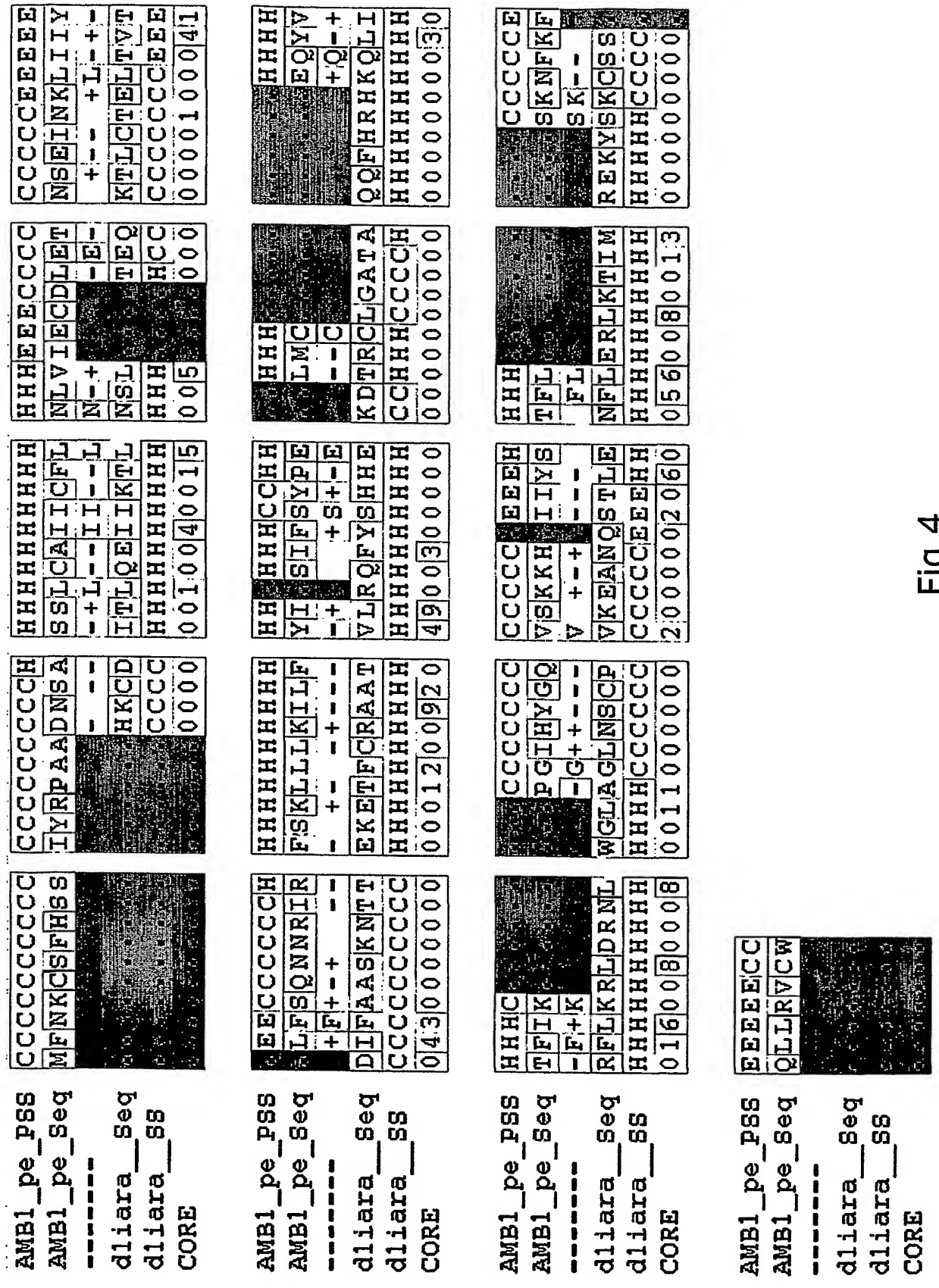
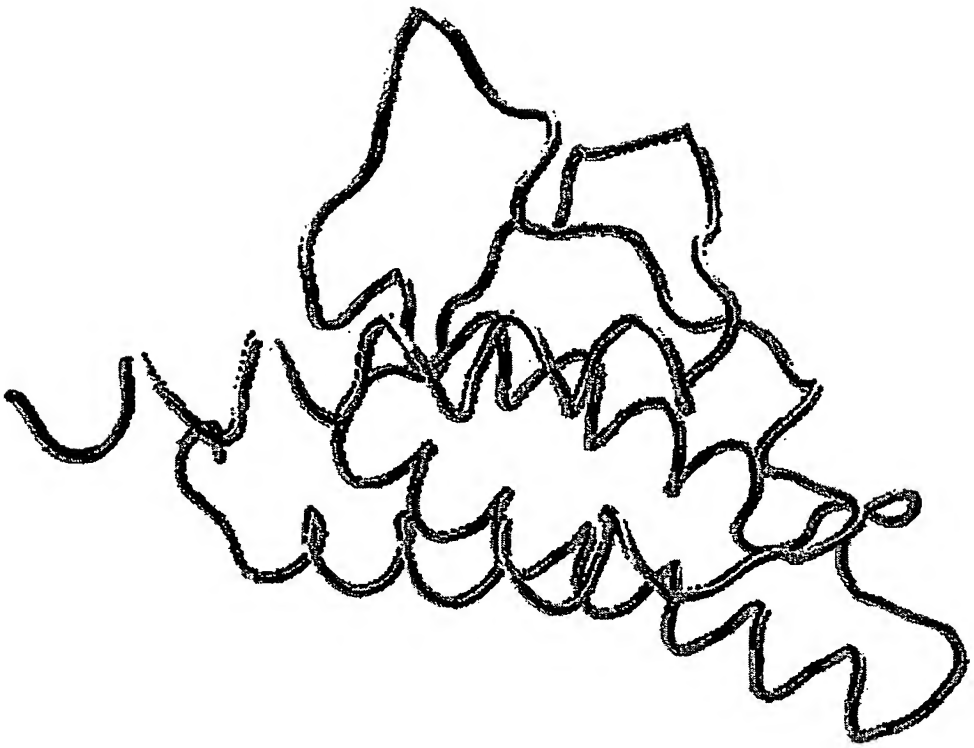

AMB1_pe_PSS
AMB1_pe_Seq
dliara__Seq
dliara__SS
CORE
AMB1_pe_PSS
AMB1_pe_Seq
dliara__Seq
dliara__SS
CORE
AMB1_pe_PSS
AMB1_pe_Seq
dliara__Seq
dliara__SS
CORE
AMB1_pe_PSS
AMB1_pe_Seq
dliara__Seq
dliara__SS
CORE

Fig.4

Fold Library	Template Length	Model	PSSM E-value	SAM-T2K E-value	Blastpgp	Class	Fold	Superfamily	Family	Protein
d1p3212 23%i.d.	75		2.88	1	n/a	Alpha and beta proteins (a/b)	Thioredoxin fold	Thioredoxin-like	Glutathione S-transferases, N-terminal domain	Glutathione S-transferase
d1iara_ 17%i.d.	129		3.05	1	n/a	All alpha proteins	4-helical cytokines	4-helical cytokines	Short-chain cytokines	Interleukin-4 (IL-4)
c1dena_ 17%i.d.	89		5.34	1	n/a	not in SCOP 1.53	PDB header: hydrolase inhibitor.	Chain A: PDB Molecule:iceberg (protease inhibitor);.		PDBTitle: solution structure of ic interleukin-2 1beta generation.
d1am9a_ 22%i.d.	80		5.57	1	n/a	All alpha proteins	Helix-loop-helix DNA-binding domain	Helix-loop-helix DNA-binding domain	Helix-loop-helix DNA-binding domain	SREBP-1a

Fig.5



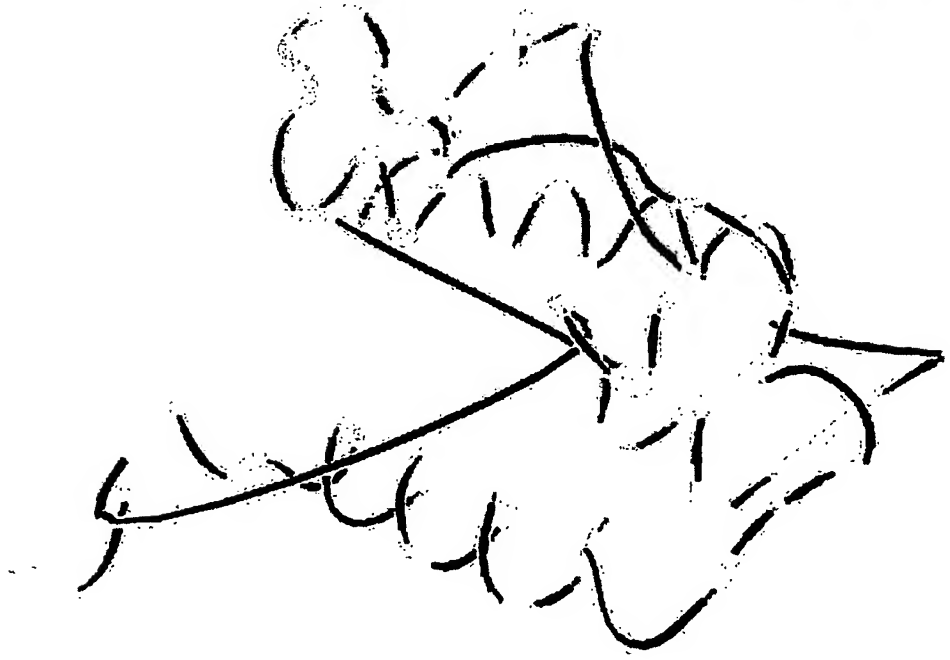


Fig.6

```
AMB1 IL4 IL3 IL13 GM-CSF

AMB1  ------MFNKCSFHSSIYRPADNSASSICAIICF---LNLVIECDLE-TNS-EINKLIY-LFSQNRIRPSKLLLKILFYI-SIFSYPE--LMC----------EQVVTFIK----------PGIHYGQVSKKH-IIYS---TFLSKNFKFQLLRVCN
IL4   ----------HKCDITLQEIIKT---LNSL----TE-QKT-LCTELTVTDIFAASKNTTEKETFCRAATVLRQFYSHHEKDTRC--LGATAQQFHRHKQLIRFLKRLDRNLWGL-----AGLNSCPVKEANQSTLE---NFLERLKTIMREKYSKCSS-
IL3   ----------ANCSIMIDE---IIHH----LKRPPNPLLDFN----------NCLN-SEDMDILMERNLRVPNLLAFVRAVKHLENASRAIES----------ILKNLLPCLPL-ATAAPTRHPIHIKDG---DWNEF-----RRKLTFYLKTLENAQAQQ
IL13  MALLLTTVIALTCLGGFASPGPVPPSTALRELIEE---LVNI----TQNQKAPLCNGSMVWSI-----NLTA-GMYCAALESLINV----------SGCSAIEK----------TQRMLSGFCPH-KVSAGQFSSLHVRDTKIEVAQF---VKDLLLHLKKLFREGRFN
CSF   ----------RSPSPSTQPWEHVNAIQEARRLLNL----SRDTAAEMNETVEVISEM----FDLQE-PTCLQTRLELYKQ----------GLRGSLTK----------LKGPLTMMASHYKQHCPPTPETSCATQIITFESF---KENLKDFLLVIPFDCWEP
```

Fig. 7

	1	2	3	4	5	6	7	8	9	10	11	12
A	whole brain	cerebellum left	substantia nigra	heart	esophagus	colon, transverse	kidney	lung	liver	leukemia, HL-60	fetal brain	yeast total RNA
B	cerebral cortex	cerebellum right	accumbens nucleus	aorta	stomach	colon, desending	skeletal muscle	placenta	pancreas	HeLa S3	fetal heart	yeast tRNA
C	frontal lobe	corpus callosum	thalamus	atrium, left	duodenum	rectum	spleen	bladder	adrenal gland	leukemia K-562	fetal kidney	*E.coli* rRNA
D	parietal lobe	amygdala	pituitary gland	atrium, right	jejunum		thymus	uterus	thyroid gland	leukemia, MOLT-4	fetal liver	*E.coli* DNA
E	occipital lobe	caudate nucleus	spinal cord	ventricle left	ileum		peripheral blood leukocyte	prostate	salivary gland	Burkitt's lymphoma, Raji	fetal spleen	Poly r(A)
F	temporal lobe	hippo-campus		ventricle right	ilocecum		lymph node	testis	mammary gland	Burkitt's lymphoma, Daudi	fetal thymus	human C_0t-1 DNA
G	p.g.* of cerebral cortex	medulla oblongata		inter-ventricular septum	appendix		bone marrow	ovary		colorectal adeno-carcinoma SW480	fetal lung	human DNA 100 ng
H	pons	putamen		apex of the heart	colon, ascending		trachea			lung carcinoma A549		human DNA 500 ng

Fig. 8

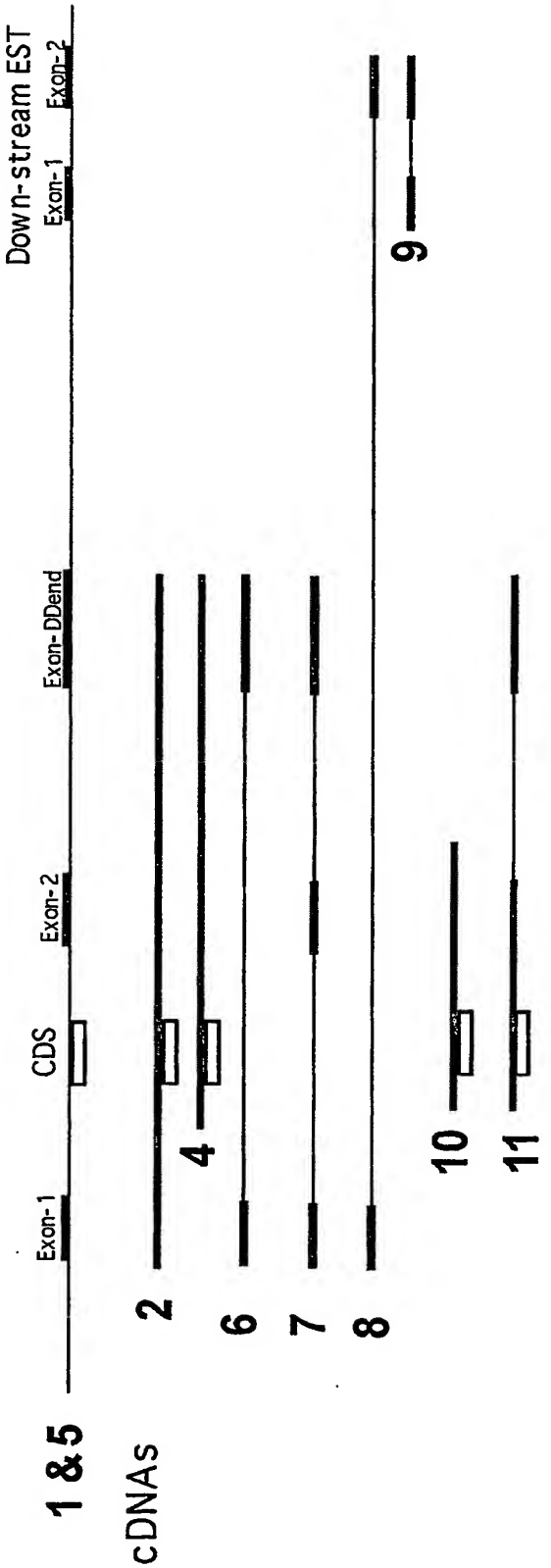

Down-stream EST
Exon-1
Exon-2
Exon-DDend
Exon-2
CDS
Exon-1
1 & 5
cDNAs
2
4
6
7
8
9
10
11

Fig. 9

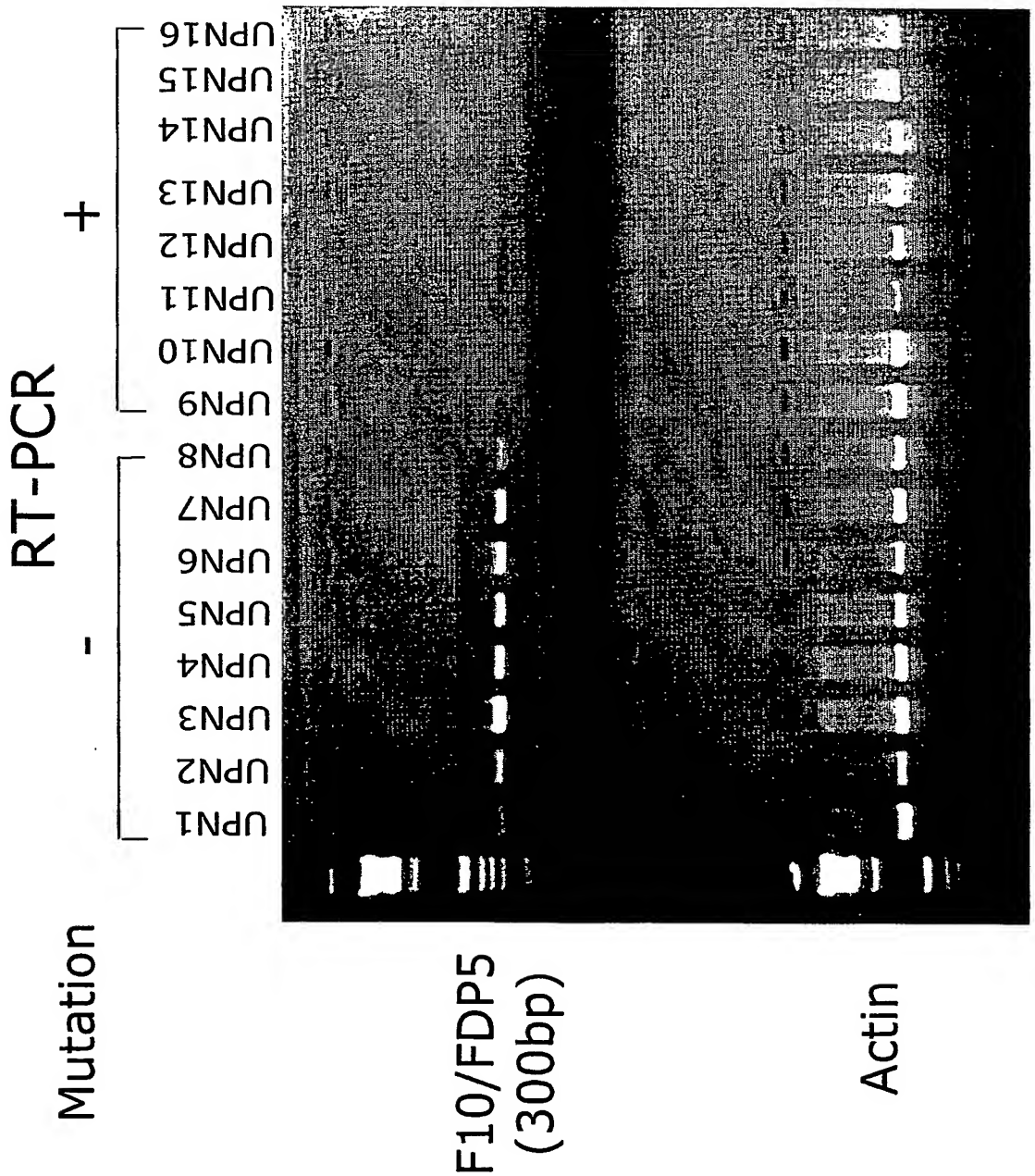

RT-PCR
+
-
UPN16
UPN15
UPN14
UPN13
UPN12
UPN11
UPN10
UPN9
UPN8
UPN7
UPN6
UPN5
UPN4
UPN3
UPN2
UPN1
Mutation
F10/FDP5
(300bp)
Actin

Fig. 10